NOVA SCOTIA DEPARTMENT
OF MINES AND ENERGY

OPEN FILE REPORT
90-020
1988 GLENCOE DRILLING PROGRAM, INVERNESS COUNTY

by

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INTRODUCTION

Purpose

The objective of the 1988 drilling program was to outline reserves of white limestone intersected during previous drillholes on the Glencoe property, Inverness County. The widely spaced drillholes of the 1976 drilling program by MacNeil (1977) intersected sections of high quality, white limestone and the 1988 drilling program was designed to infill between these drillholes to determine structure, quality and reserves (Figs. 1 and 2).

Previous Work

Limestone and dolomite of the Hadrynian George River Group in the Upper Glencoe area were first noted by Fletcher (1881) during his geological mapping programs on Cape Breton Island during 1879 and 1880.

Goudge (1934) stated that the Creignish Hills, Inverness County, contained large resources of limestone and dolomite, "perhaps the largest in Nova Scotia", but considered them too far from tidewater or rail transportation to be economical.

Kelley (1967) mapped limestone in the area, but because his study was primarily concerned with Mississippian age stratigraphy, he did no detailed work on the Hadrynian George River Group carbonates.

Shea and Murray (1969), in their inventory of carbonate deposits of Cape Breton Island, described and assayed several outcrops of limestones along the old Glencoe Road.

A detailed study of the George River Series in the Glencoe area was undertaken by Milligan (1970). He delineated extensive areas underlain by limestone and dolomite along the East MacPhail Brook and west of its headwaters (southeast of the map area shown in Figure 1).

In 1972, Scotia Limestone Ltd. conducted a program of outcrop sampling and geological mapping in the Upper Glencoe area. Promising results from this program led to a drilling program in 1974 (MacNeil, 1974).

A very extensive drilling program was initiated by the Nova Scotia Department of Mines and conducted during the fall and winter of 1975-1976. This systematic evaluation was designed to provide an overall assessment of the quality and quantity of the carbonates. The program drilled a number of profiles over the deposit in a structured grid pattern that provided important assessment data as well as a systematic framework for further exploration and development drilling (MacNeil, 1977).

In 1986, a project funded by the Mineral Development Agreement and sponsored by the Geological Survey of Canada was conducted by Hill (1987) to study the geology and geochemistry of the George River Group carbonate rocks of Cape Breton Island. This work entailed lithogeochemical sampling, geological mapping and provided insight into the relationships between the various carbonate terranes. It summarizes the economic potential of both the metallic and nonmetallic associations.

1988 GLENCOE DRILLING PROGRAM

The 1988 diamond-drilling program at Glencoe, Inverness County, was designed to delineate further reserves of white limestone and provide important information on quality and structure between drillholes completed during 1975 and 1976 (MacNeil, 1977). Sections of white limestone intersected during the 1975-1976 drilling were chosen for infill drilling. Appendix 1 contains the diamond-drill hole descriptions for 88-6 to 88-17 followed by geochemical assays for selected holes. The assays were carried out by the Mineral Engineering Centre, Technical University of Nova Scotia, Halifax.

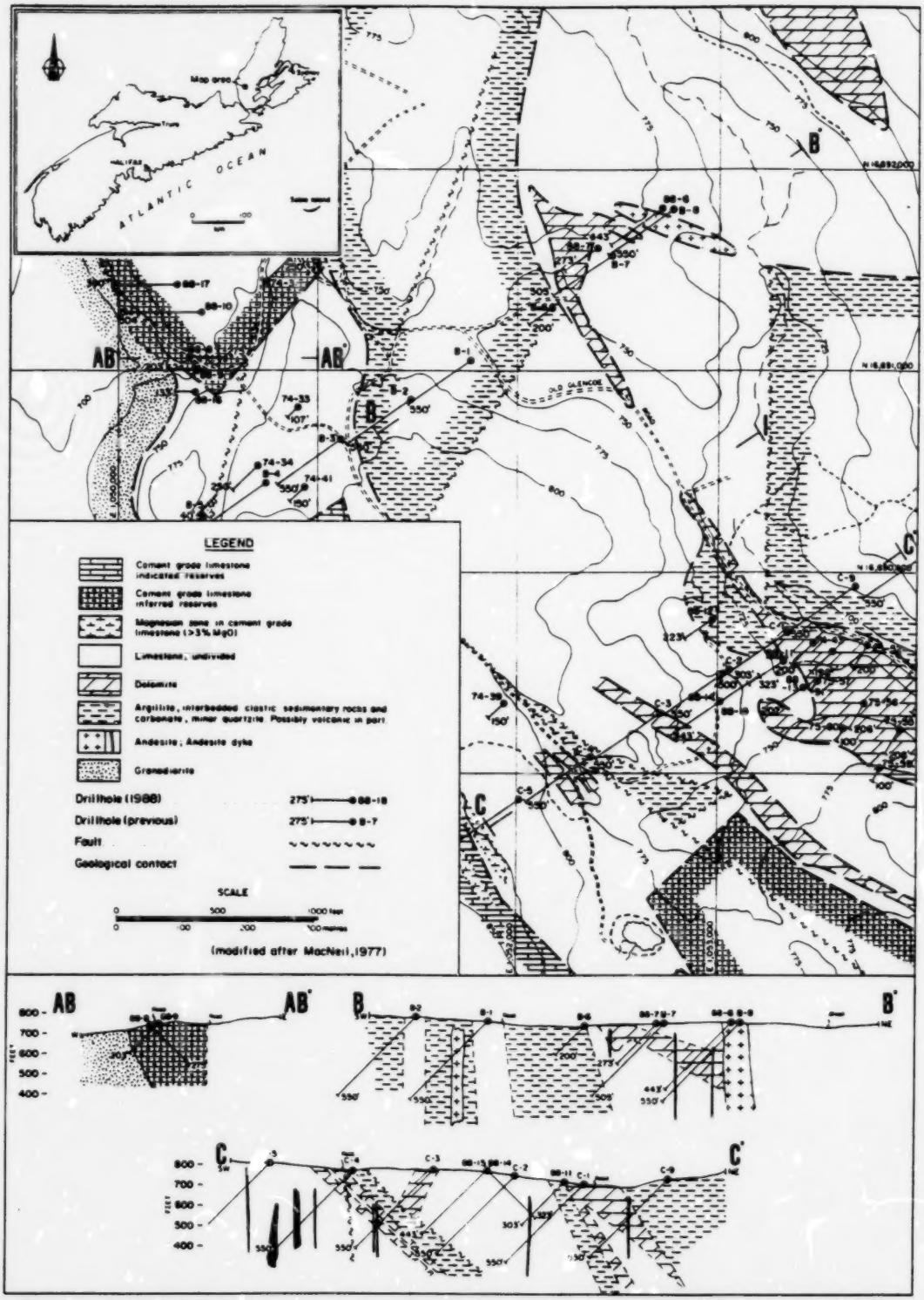

Figure 1. Glencoe limestone deposit, Inverness County, 1976 (MacNeil, 1977) with 1988 diamond-drill holes. This map is available as Nova Scotia Department of Mines and Energy, Open File Map 90-002 at a scale of 1:6000 (same scale as MacNeil, 1977).

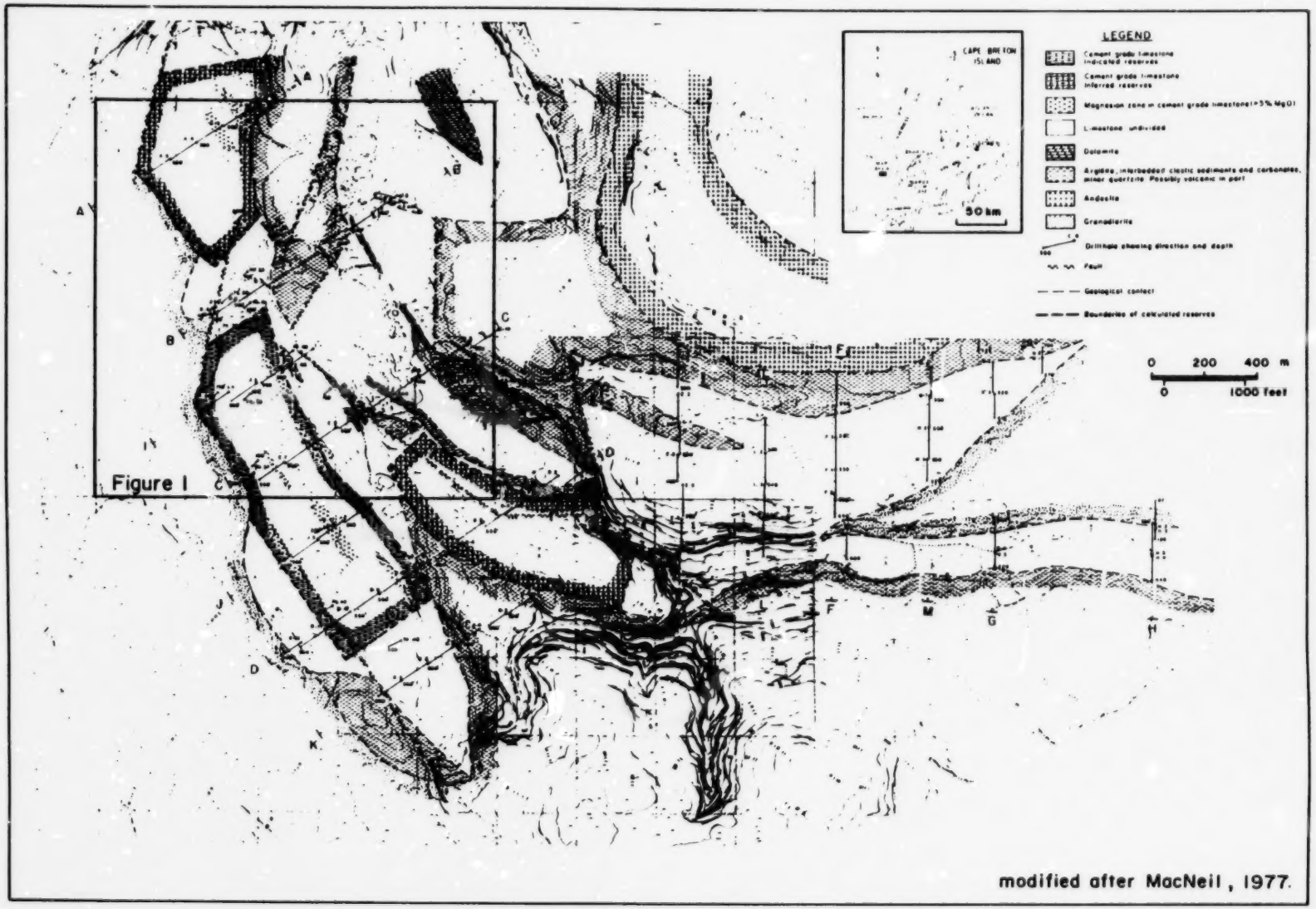

Figure 2. Glencoe limestone deposit modified after MacNeil (1977) showing location of area of 1988 drilling.

The first location selected was the area surrounding drillhole C-2 of the 1975-1976 program (Fig. 1). In drillhole C-2, the top 30 m (95 ft) of limestone intersected was described as a "white to grey medium-coarse grained crystalline limestone" (MacNeil, 1977). A 40 t bulk sample of the white limestone was extracted from the surface near the collar of drillhole C-2 during 1987. The white limestone outcrops quite regularly in the area due to the thin cover of overburden. A portion of this white limestone bulk sample was tested by a local paint manufacturer who concluded that this ore was of equal quality, if not superior, to the limestone presently used by the company which is transported to Nova Scotia from Ontario.

Drillhole 88-11 was located along the C-panel infilling between drillholes C-1 and C-2 of the 1976 program (MacNeil, 1977). Drillhole 88-11 was drilled at 45° on a bearing of 235°Az. The carbonate beds are dipping steeply to the east or are near vertical in this area. An 8.2 m (27 ft) section of limestone was intersected between 18.6 and 26.8 m (61 and 88 ft) in the drillhole and may be the downdip extension of 30.0 m (95 ft) of similar white limestone intersected in the 1976 drillhole C-2. Overall the carbonates intersected are impure, broken with abundant secondary calcite veining, have low brightness and are laminated bluish grey to white. The section is siliceous and dolomitic in places. A 1.0 m (3.5 ft) andesite sill was intersected between 77.6 and 78.6 m (254.5 and 258 ft) roughly parallel to the bedding. Hole 88-11 is inconsistent with drillhole C-2 because 88-11 has thinner white beds of limestone which are badly broken.

Drillhole 88-12 was located 204.2 m (670 ft) on a bearing of 305° from Glencoe 88-11. Drillhole 88-12 was drilled at 45° on a bearing of 235°Az and intersected a very broken section of metasedimentary rock that has been recemented by secondary calcite. There is little to no white limestone in this section and the badly broken, recemented rock could indicate a fault contact with the carbonate section nearby. This section is not similar to the rock type intersected by drillhole 88-11.

Drillhole 88-13 was located 60 m (197 ft) from 88-11 on a bearing of 140°. The drillhole was drilled at 45° on a bearing of 235°Az. The drillhole collared in an impure, light grey limestone that extends approximately 24.4 m (80 ft) below the surface. The limestone becomes very siliceous at this point and except for a thin 0.4 m (1.3 ft) band of white limestone at 26.8 m (88 ft), the limestone is impure, laminated and grades into a dolomite at 34.6 m (113.5 ft) to the end of the hole at 61.6 m (202 ft).

Drillholes 88-14 and 88-15 were located along the 1975-1976 C-panel between drillholes C-2 and C-3. Drillhole 88-14 was drilled at 45°, on a bearing of 55°Az and drillhole 88-15 was collared at the same site, but drilled at 45° on a bearing of 235°Az.

Drillhole 88-14 intersected a 92 m (300 ft) section of light grey limestone, badly fractured, recemented, with an andesite dyke from 76-80 m (250-262.5 ft). Drillhole 88-15 is similar to the rock intersected in C-2, but approximately 40 m (130 ft) up the section. There is very little white limestone in drillhole 88-15. It contains mainly an impure limestone, badly fractured and recemented, grading to a dolomitic limestone in places.

The five drillholes, 88-11 to 88-15, completed in this area failed to prove any large reserves of white limestone. The white limestone intersected near the top of drillhole C-2 and outcropping and bulk sampled during 1987 appears to be an isolated pod with no lateral or depth extensions. The area should be abandoned as a large source of white limestone.

A second site was located along the B-panel of the 1975-1976 drilling program. In drillhole B-8, drilled by MacNeil (1977), 36.6 m (120 ft) of white, massive limestone, containing two thin andesite dykes, was intersected from 128.6-167.6 m (422-550 ft). In drillhole B-7 (MacNeil, 1977) nearly 70.4 m (231 ft) of "white, medium to coarse grained, massive crystalline limestone" was intersected between 45.1 and 120.1 m (148 and 394 ft) and appears to be the updip extension of the white limestone of drillhole B-8. During the 1988 drilling program two drillholes were drilled to infill around B-7 and B-8 in an attempt to follow the white limestone bed to surface. Drillhole 88-6 was collared in the same andesite marker bed as drillhole B-8 (MacNeil, 1977) and although drillholes 88-6 and B-8 were within 15.2 m (50 ft) of each other, the chemistry of the carbonate changed dramatically. Even though marker beds such as the andesite on top and two dykes of andesite at corresponding intervals in both drillholes are consistent, the white limestone intersected in drillhole B-8 is not similar to that in drillhole 88-6 where the carbonate has changed abruptly to dolomite.

The same situation was encountered between drillholes 88-7 and B-7 (MacNeil, 1977) where the white limestone band intersected in drillhole B-7 does not continue into drillhole 88-7 and the carbonate changes abruptly to dolomite.

The drilling results indicate that no large reserve of white limestone occurs at this site. The white beds encountered in earlier drilling programs could not be traced along strike and the chemistry of the carbonate is very erratic.

In conjunction with the Building Stone Project (Dickie, in preparation), funded by the Mineral Development Agreement, an area was selected from the 1975-1976 drilling results (MacNeil, 1977) and also from examination of surface outcroppings in an area near the A-B panel to define economic reserves with building stone potential.

Five diamond-drill holes were completed in this area in a grid line. All drillholes were drilled dipping 45°. DDH 88-9, -10, -16 and -17 were drilled on a bearing of 270°Az and DDH 88-8 on a bearing of 90°Az. The westward facing drillholes all collared in limestone and marble and all but DDH 88-10 ended in a fault contact granodiorite. DDH 88-10 intersected 153.3 m (504 ft) of carbonates ending in a limestone. Drillhole 88-8 intersected 83.8 m (275 ft) of carbonates ending in carbonate. Since the beds are dipping steeply to nearly vertical, a thick section of limestone is present between drillholes 88-8 and 88-10 bounded to the west by granodiorite and to the east by metasedimentary rock as indicated by previous drilling programs (Fig. 1) (MacNeil, 1977). The potential for a large deposit of white marble at present appears slim due to the deformed structure, broken condition and many intrusives found in the drillholes. More infill drilling is warranted to follow the possible extension and thickening of some of the white limestone beds.

CONCLUSIONS

The 1988 drilling program failed to delineate any large reserves of white limestone. White limestone beds were encountered during the program, but they are thin, inconsistent, structurally complex in places and some areas possess erratic chemistry. Additional infill drilling at selected sites is warranted before planning a large quarry operation.

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APPENDIX 1.

DIAMOND-DRILL HOLE DESCRIPTIONS 88-6 TO 88-17

WITH GEOCHEMICAL ASSAYS FOR SELECTED HOLES

NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY
DIAMOND DRILL RECORD

Property:	Glencoe Limestone	**Section:**	0-135.0 m (0-443 ft) T.D.
Hole Number:	Glencoe 88-6	**Azimuth:**	235°
Latitude:	45°55'49.97380"	**Dip:**	45°
	3° MTM 320866.944 m (1052713.070 ft)	**Started:**	August 15, 1988
Longitude:	61°17'34.19129"	**Completed:**	August 23, 1988
	3° MTM 5087660.369 m (16691799.110 ft)	**Ultimate Depth:**	135.0 m (443 ft)
Elevation:	233.65 m (766.61 ft)	**Proposed Depth:**	137.0 m (450 ft)

Depth in metres (feet)	Formation
	NO OVERBURDEN.
0-35.4 (0-116)	ANDESITE: dark green, broken, calcite infilling fractures, abundant disseminated pyrite 23.8-24.4 m (78-80 ft).
35.4-40.7 (116-133.5)	LIMESTONE: white, fine- to medium-grained, thinly laminated with a few dark grey shaly sections, pyrite along fractures, pinkish near bottom of section.
40.7-42.7 (133.5-140)	QUARTZITE: dark grey, badly broken, core recovery 60%, abundant calcite stringers with trace pyrite.
42.7-46.5 (140-152.5)	DOLOMITE: white to light grey, massive siliceous with abundant disseminated pyrite.
46.5-54.3 (152.5-178)	DOLOMITE: light to dark grey, siliceous in places, very deformed interbeds of limy dolomite and very siliceous limestone, random foliation, abundant second and third generation calcite infilling fractures, few thin graphitic stringers.
54.3-54.6 (178-179)	ANDESITE: dark green, very badly broken, fault(?), calcite stringers.
54.6-65.1 (179-213.5)	DOLOMITE: medium grey to dark grey, massive with random calcite stringers.
65.1-93.9 (213.5-308)	LIMESTONE: bluish grey to medium grey, very altered, deformed, random foliation, abundant second generation calcite along fractures and bedding planes, siliceous in places, vuggy, graphitic in places, trace pyrite.
93.9-113.7 (308-373)	DOLOMITE: medium grey, siliceous with abundant calcite stringers, few thin andesite dykes, abundant pyrite infilling some fractures, graphitic in places. Sections of limy quartzite.
113.7-114.8 (373-376.6)	QUARTZITE: olive green, brecciated with abundant calcite infilling.
114.8-135.0 (376.6-443)	DOLOMITE: bluish grey to grey, fine grained, very siliceous in places, limy in places, very altered, massive with trace of old bedding planes @ 40° to core axis, abundant calcite infilling fractures. 7.5 cm (3 in) andesite dyke @ 123.7 m (406 ft).
	Hole assayed.

Drilling Performed by: Nova Scotia Department of Mines and Energy **Geologist:** R. MacDonald

NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY
DIAMOND DRILL RECORD

Property:	Glencoe Limestone	**Section:**	0-83.2 m (0-273 ft) T.D.
Hole Number:	Glencoe 88-7	**Azimuth:**	235°
Latitude:	45°55'48.05319"	**Dip:**	45°
	3° MTM 320770.508 m (1052396.680 ft)	**Started:**	August 3, 1988
Longitude:	61°17'38.67483"	**Completed:**	August 9, 1988
	3° MTM 5087600.826 m (16691603.760 ft)	**Ultimate Depth:**	83.2 m (273 ft)
Elevation:	234.79 m (769.8 ft)	**Proposed Depth:**	76.0 m (250 ft)

Depth in metres (feet)	Formation
0-3.0 (0-10)	OVERBURDEN.
3.0-21.0 (10-69)	DOLOMITE: bluish grey with abundant fractures with calcite infilling, altered throughout with zones of fine grained, disseminated pyrite, ancient bedding @ 60° to core axis, limy in part, siliceous.
21.0-22.3 (69-73)	QUARTZITE: yellowish-grey, angular, siliceous clasts cemented by calcite. Very badly broken, vuggy and weathered.
22.3-32.5 (73-106.5)	DOLOMITE: bluish-grey, limy, abundant calcite stringers, ancient bedding @ 10°-30° to core axis. Dark green pyrite, andesite 30.0-30.2 m (98.5-99.0 ft).
32.5-34.4 (106.5-113)	ANDESITE: dark green, badly broken, altered, weathered, siliceous.
34.4-34.6 (113-113.5)	LIMESTONE: buff with white calcite stringers.
34.6-48.2 (113.5-158)	DOLOMITE: bluish grey with white sections 43.4-44.0 m (142.5-144.5 ft); 45.4-46.0 m (149-151 ft) massive, bedding and contacts @ 30-45° to core axis.
48.2-48.9 (158-160.5)	ANDESITE: dark green with clasts of dolomite. Stringers of calcite.
48.9-83.2 (160.5-273)	LIMESTONE: light grey with thin white sections, altered, second and third generation calcite veinlets, vuggy and badly broken in places. Abundant pyrite along fractures, ancient bedding planes @ 0-45° to core axis. Laminated in sections, pinkish near bottom of hole.
	Hole assayed.

Drilling Performed by: Nova Scotia Department of Mines and Energy **Geologist:** R. MacDonald

NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY
DIAMOND DRILL RECORD

Property:	Glencoe Limestone	**Section:**	0-83.8 m (0-275 ft) T.D.
Hole Number:	Glencoe 88-8	**Azimuth:**	090°
Latitude:	45°55'42.87617"	**Dip:**	45°
	3° MTM 320152.922 m (1050370.480 ft)	**Started:**	August 17, 1988
Longitude:	61°18'7.36058"	**Completed:**	August 24, 1988
	3° MTM 5087439.437 m (16691074.270 ft)	**Ultimate Depth:**	83.8 m (275 ft)
Elevation:	224.91 m (737.89 ft)	**Proposed Depth:**	85 m (279 ft)

Depth in metres (feet)	Formation
0-1.2 (0-4)	Overburden.
1.2-2.6 (4-8.5)	White, fine grained, massive marble.
2.6-2.9 (8.5-9.5)	Blue-grey, banded limestone. Core angle to bedding 70°.
2.9-3.5 (9.5-11.5)	White to slightly off-white, fine grained marble.
3.5-3.7 (11.5-12)	Blue-grey, banded limestones.
3.7-7.3 (12-24)	White to slightly mottled, fine grained marble. Rock is blocky with many healed fractures. Some fractures parallel to core axis.
7.3-7.6 (24-25)	White to bluish-white, mottled and pale, banded marble.
7.6-11.0 (25-36)	Whitish-grey to blue-grey, banded and mottled marble and limestone. Core angle to banding 45°.
11.0-16.2 (36-53)	Grey and white, banded limestone. Amber coloured needles and tabular crystals @ 13.7 m (45 ft).
16.2-52.6 (53-172.5)	Grey to whitish-grey, banded limestone. Strongly banded @ 45° to core axis. Locally minor argillite partings. Pinkish calcite veins @ 30.2 m (99 ft), 40.8 m (134 ft). White calcite veins @ 43.0 m (141 ft), 45.1 m (148 ft), 45.4 m (149 ft), 46.9 m (154 ft) and 50.3 m (165 ft). Pod of green altered granular rock @ 50.6 m (166 ft).
52.6-55.5 (172.5-182)	Strongly altered green rock. Looks like breccia with 2-4% pyrite, abundant calcite veins. Lower contact contains black argillaceous(?) material over 0.3 m (1 ft).
55.5-65.2 (182-214)	Mottled, grey limestone. Abundant calcite veins and stringers.
65.2-83.8 (214-275)	Whitish-grey, massive to banded, fine- to medium-grained limestone. Core angle to banding 38-40°. Strongly banded from 81.4-83.8 m (267-275 ft).
	End of Hole @ 83.8 m (275 ft).
	Hole assayed.

Drilling Performed by: Nova Scotia Department of Mines and Energy **Geologist:** G. Dickie

NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY
DIAMOND DRILL RECORD

Property:	Glencoe Limestone	**Section:**	0-61.9 m (0-203 ft) T.D.
Hole Number:	Glencoe 88-9	**Azimuth:**	270°
Latitude:	45°55'42.18248"	**Dip:**	45°
	3° MTM 320165.218 m (1050410.820 ft)	**Started:**	August 28, 1988
Longitude:	61°18'6.79232"	**Completed:**	August 29, 1988
	3° MTM 5087418.053 m (16691004.110 ft)	**Ultimate Depth:**	61.9 m (203 ft)
Elevation:	223.99 m (734.87 ft)	**Proposed Depth:**	62 m (203.4 ft)

Depth in metres (feet)	Formation
0-12.5 (0-41)	Banded and mottled grey to whitish-grey limestone.
12.5-22.3 (41-73)	Mainly pure white to mottled marble.
22.3-23.5 (73-77)	Mottled and banded, off-white marble.
23.5-24.5 (77-80.5)	Green, fine grained andesite porphyry. Intrusive contacts.
24.5-27.1 (80.5-89)	Mixed grey and white, banded limestone.
27.1-31.1 (89-102)	Pure white marble.
31.1-40.5 (102-133)	Mottled and pale banded, grey and whitish-grey limestone.
40.5-47.2 (133-155)	Green, amygdaloidal to porphyritic basalt to andesite.
47.2-61.9 (155-203)	Pinkish to grey, medium grained granodiorite. 47.2-53.9 m (155-177 ft): strongly kaolinized. Granite in fault contact with andesite.
	End of Hole @ 61.9 m (203 ft).
	Hole assayed.

Drilling Performed by: Nova Scotia Department of Mines and Energy **Geologist:** G. Dickie

NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY
DIAMOND DRILL RECORD

Property:	Glencoe Limestone	**Section:**	0-153.6 m (0-504 ft) T.D.
Hole Number:	Glencoe 88-10	**Azimuth:**	270°
Latitude:	45°55'45.01043"	**Dip:**	45°
	3° MTM 320174.920 m (1050442.650 ft)	**Started:**	August 25, 1988
Longitude:	61°18'6.33192"	**Completed:**	August 31, 1988
	3° MTM 5087505.381 m (16691290.620 ft)	**Ultimate Depth:**	153.6 m (504 ft)
Elevation:	234.84 m (770.47 ft)	**Proposed Depth:**	155 m (508.5 ft)

Depth in metres (feet)	Formation
0-0.61 (0-2)	Overburden.
0.61-25.0 (2-82)	Mixed grey to whitish-grey, banded limestone. Blocky. Core angle to banding 40-43°. Rock is dense and hard, possibly siliceous.
25.0-28.7 (82-94)	Pure white, crystalline marble. Green, secondary mineral @ 27.7-28.7 m (91-94 ft).
28.7-37.2 (94-122)	Grey to whitish-grey, mottled and banded limestone.
37.2-37.8 (122-124)	White, faintly banded marble.
37.8-38.7 (124-127)	Mottled white to grey marble.
38.7-39.0 (127-128)	Grey, granular limestone.
39.0-40.2 (128-132)	White, crystalline marble.
40.2-40.5 (132-133)	Grey, granular limestone.
40.5-41.8 (133-137)	White marble.
41.8-43.6 (137-143)	Mixed mottled white and banded granular, grey limestone.
43.6-43.9 (143-144)	White marble.
43.9-46.6 (144-153)	Off-white to greyish, mottled marble.
46.6-46.9 (153-154)	Dark grey volcanic.
46.9-48.2 (154-158)	Off-white, mottled marble.
48.2-50.3 (158-165)	Dark grey volcanic (?).
50.3-69.2 (165-227)	Off-white to white to bluish-white, mottled to pale banded marble. Core angle to banding 35-40°.
69.2-95.7 (227-314)	Grey to whitish-grey, mottled and banded limestone. Core angle to banding 55-65°. Rock is broken and blocky parallel to banding. Bands of whiter stone 82.6-83.5 m (271-274 ft) and 84.7-85.3 m (278-280 ft).
95.7-110.9 (314-364)	Mottled, whitish-grey limestone. Core angle to banding 40-45°.

110.9-138.4 (364-454)	Mixed mottled and banded, whitish to blue-grey limestone.
138.4-153.6 (454-504)	Mixed banded and mottled, blue-grey to whitish limestone.
	End of Hole @ 153.6 m (504 ft).
	Hole assayed.

Drilling Performed by: Nova Scotia Department of Mines and Energy **Geologist:** G. Dickie

NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY
DIAMOND DRILL RECORD

Property:	Glencoe Limestone	**Section:**	0-92.4 m (0-303 ft) T.D.
Hole Number:	Glencoe 88-11	**Azimuth:**	235°
Latitude:	45°55'27.87765"	**Dip:**	45°
	3° MTM 321054.240 m (1053327.560 ft)	**Started:**	June 15, 1988
Longitude:	61°17'25.58041"	**Completed:**	June 23, 1988
	3° MTM 5086978.708 m (16689562.690 ft)	**Ultimate Depth:**	92.4 m (303 ft)
Elevation:	219.16 m (718.56 ft)	**Proposed Depth:**	91.4 m (300 ft)

Depth in metres (feet)	Formation
0-2.7 (0-9)	OVERBURDEN and broken bedrock. No core recovery.
2.7-4.3 (9-14)	LIMESTONE BRECCIA: reddish-white, angular clasts of limestone cemented with calcite and hematite, very badly broken.
4.3-7.6 (14-25)	LIMESTONE: buff, grey, white with red staining, laminated in sections, badly broken.
7.6-18.6 (25-61)	LIMESTONE: dark grey with abundant calcite veining, thin graphite bands throughout.
18.6-26.8 (61-88)	LIMESTONE: white with minor reddish staining, broken in places. Sections pure white, massive.
26.8-29.0 (88-95)	LIMESTONE: bluish grey, white laminated.
29.0-30.8 (95-101)	LIMESTONE: pure white with few buff sections.
30.8-33.5 (101-110)	LIMESTONE: bluish grey, white laminated as above.
33.5-37.2 (110-122)	LIMESTONE: white with bluish-grey, thin fractures lined with hematite stain and calcite.
37.2-73.1 (122-240)	LIMESTONE: grey to bluish-grey with few thin white sections, laminated, thin calcite veining @ 40° to core axis. 68.3-71.6 m (224-235 ft) thin layers of graphite parallel to bedding.
73.1-76.5 (240-251)	QUARTZITE: dark grey to black, thin calcite veining in places, broken.
76.5-77.6 (251-254.5)	LIMESTONE: dark grey, broken, siliceous throughout.
77.6-78.6 (254.5-258)	ANDESITE: dark green with abundant calcite veining, fault zone @ top contact, rock flour @ lower contact, brecciated @ 45° to core axis, calcite veining.
78.6-83.2 (258-273)	LIMESTONE: medium grey, laminated bedding @ 45°, siliceous, calcite veinlets throughout.
83.2-92.4 (273-303)	QUARTZITE: medium grey with thin calcite veining, limy, grades from quartzite to a very siliceous limestone throughout.
	Hole not assayed.

Drilling Performed by: Nova Scotia Department of Mines and Energy **Geologist:** R. MacDonald

NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY
DIAMOND DRILL RECORD

Property:	Glencoe Limestone	**Section:**	0-71.0 m (0-233 ft) T.D.
Hole Number:	Glencoe 88-12	**Azimuth:**	235°
Latitude:	45°55'29.84235"	**Dip:**	45°
	3° MTM 320946.420 m (1052973.820 ft)	**Started:**	June 27, 1988
Longitude:	61°17'30.57738"	**Completed:**	June 30, 1988
	3 MTM 5087039.080 m (16689760.760 ft)	**Ultimate Depth:**	71.0 m (233 ft)
Elevation:	224.45 m (735.90 ft)	**Proposed Depth:**	91.4 m (300 ft)

Depth in metres (feet)	Formation
0-4.9 (0-16)	OVERBURDEN: sandy till with boulders.
4.9-23.8 (16-78)	METASEDIMENTARY ROCK: reddish brown to green, very badly broken, with abundant calcite filling fractures, hematite stain, brecciated sections cemented by calcite.
23.8-26.5 (78-87)	METASEDIMENTARY ROCK: red breccia, very angular clasts cemented with calcite.
26.5-29.9 (87-98)	LIMESTONE: light grey to pink, laminated, fractured with calcite infilling.
29.9-39.0 (98-128)	METASEDIMENTARY ROCK: grey, brecciated with calcite cement and stringers, argillaceous.
39.0-41.1 (128-135)	METASEDIMENTARY ROCK: grey to olive, very badly broken.
41.1-43.6 (135-143)	QUARTZITE: light grey, pinkish, fractured with calcite infilling, weathered in places, limy.
43.6-49.5 (143-162.5)	METASEDIMENTARY ROCK: olive to grey, with abundant calcite infilling.
49.5-53.9 (162.5-177)	LIMESTONE: medium bluish grey, siliceous, abundant calcite stringers.
53.9-55.2 (177-181)	LIMESTONE: white to pink, appears to be calcite infilling a very fractured section of metasedimentary rock.
55.2-70.1 (181-230)	LIMESTONE: light to dark grey, abundant calcite stringers, broken, siliceous.
70.1-71.0 (230-233)	QUARTZITE: light grey, old bedding planes @ 45° to core axis, abundant disseminated pyrite throughout.
	Hole not assayed.

Drilling Performed by: Nova Scotia Department of Mines and Energy **Geologist:** R. MacDonald

NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY
DIAMOND DRILL RECORD

Property:	Glencoe Limestone	**Section:**	0-61.6 m (0-202 ft) T.D.
Hole Number:	Glencoe 88-13	**Azimuth:**	235°
Latitude:	45°55'26.65310"	**Dip:**	45°
	3° MTM 321084.254 m (1053426.030 ft)	**Started:**	July 11, 1988
Longitude:	61°17'24.19198"	**Completed:**	July 14, 1988
	3° MTM 5086940.983 m (16689438.920 ft)	**Ultimate Depth:**	61.6 m (202 ft)
Elevation:	224.41 m (735.77 ft)	**Proposed Depth:**	61.6 m (202 ft)

Depth in metres (feet)	**Formation**
0-1.5 (0-5)	OVERBURDEN.
1.5-25.5 (5-83.5)	LIMESTONE: light grey, medium- to coarse-grained crystalline, laminated in sections, foliation @ 45° to core axis. 21.0-21.8 m (69-71.5 ft) ANDESITE: dark green with calcite stringers.
25.5-26.8 (83.5-88)	QUARTZITE: olive to bluish grey. Olive section has weathered appearance, lower section gradually grades into limy quartzite. Hematite stain in sections.
26.8-34.6 (88-113.5)	LIMESTONE: white, grey, reddish, medium- to coarse-grained, crystalline, laminated @ 45-60° to core axis, 0.4 m (1.3 ft) of pure white limestone @ 26.8 m (88 ft).
34.6-61.6 (113.5-202)	DOLOMITE: bluish grey to white, mottled blue grey in places. Very badly broken, siliceous in sections, pinkish hematite staining in sections, blocky.
	Hole assayed.

Drilling Performed by: Nova Scotia Department of Mines and Energy **Geologist:** R. MacDonald

NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY
DIAMOND DRILL RECORD

Property:	Glencoe Limestone	**Section:**	0-98.5 m (0-323 ft) T.D.
Hole Number:	Glencoe 88-14	**Azimuth:**	55°
Latitude:	45°55'25.79596"	**Dip:**	45°
	3° MTM 320958.265 m (1053012.680 ft)	**Started:**	July 18, 1988
Longitude:	61°17'30.04277"	**Completed:**	July 20, 1988
	3° MTM 5086914.191 m (16689351.020 ft)	**Ultimate Depth:**	98.5 m (323 ft)
Elevation:	233.31 m (765.46 ft)	**Proposed Depth:**	106.7 m (350 ft)

Depth in metres (feet)	Formation
0-1.5 (0-5)	OVERBURDEN.
1.5-51.2 (5-168)	LIMESTONE: light to medium grey with thin white laminations. Reddish in places, fractured in places, vugs filled with secondary calcite.
51.2-53.0 (168-174)	LIMESTONE: similar to above, but section appears to be cavity filling with angular clasts of limestone in matrix of limy metaargillite.
53.0-76.2 (174-250)	LIMESTONE: light to medium grey, thinly laminated in places. Varies from 0-60° to core axis.
76.2-80.0 (250-262.5)	ANDESITE DYKE.
80.0-98.5 (262.5-323)	LIMESTONE: light grey to bluish, laminated @ 45° to core axis.
	Hole not assayed.

Drilling Performed by: Nova Scotia Department of Mines and Energy **Geologist:** R. MacDonald

NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY
DIAMOND DRILL RECORD

Property:	Glencoe Limestone	**Section:**	0-135.0 m (443 ft) T.D.
Hole Number:	Glencoe 88-15	**Azimuth:**	235°
Latitude:	45°55'25.72480"	**Dip:**	45°
	3° MTM 320955.683 m (1053004.210 ft)	**Started:**	July 22, 1988
Longitude:	61°17'30.16286"	**Completed:**	August 2, 1988
	3° MTM 5086911.987 m (16689343.790 ft)	**Ultimate Depth:**	135.0 m (443 ft)
Elevation:	233.32 m (765.49 ft)	**Proposed Depth:**	137.0 m (449.5 ft)

Depth in metres (feet)	**Formation**
0-3.0 (0-10)	OVERBURDEN.
3.0-22.9 (10-75)	LIMESTONE: light to dark grey; dolomitic throughout grading into dolomite, siliceous in part 16.8-17.1 m (55-56 ft), breccia, fractured with calcite infilling @ 45°-60° to core axis.
22.9-25.6 (75-84)	METASEDIMENTARY ROCK: argillaceous, dark green to grey with fractures @ 60° to core axis with quartz infilling, abundant pyrite and minor secondary calcite.
25.6-48.8 (84-160)	LIMESTONE: medium grey, laminated in sections, abundant calcite infilling, graphitic in places.
48.8-56.4 (160-185)	LIMESTONE: dark to medium grey, very badly broken, dolomite in places.
56.4-93.3 (185-306)	DOLOMITE: dark grey to bluish, fractured with calcite infilling. Badly broken in places, limy.
93.3-93.6 (306-307)	ANDESITE DYKE: dark green with minor calcite infilling.
93.6-135.0 (307-443)	LIMESTONE: medium grey with grey and white laminated in places. Calcite veinlets random throughout, broken up 131.4-132.3 m (431-434 ft) green limy quartzite.
	Hole not assayed.

Drilling Performed by: Nova Scotia Department of Mines and Energy **Geologist:** R. MacDonald

NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY
DIAMOND DRILL RECORD

Property:	Glencoe Limestone	**Section:**	0-40.5 m (0-133 ft) T.D.
Hole Number:	Glencoe 88-16	**Azimuth:**	270°
Latitude:	45°55'41.09805"	**Dip:**	45°
	3° MTM 320163.654 m (1050405.690 ft)	**Started:**	August 30, 1988
Longitude:	61°18'6.86876"	**Completed:**	August 31, 1988
	3° MTM 5087384.570 m (16690894.260 ft)	**Ultimate Depth:**	40.5 m (133 ft)
Elevation:	228.99 m (751.28 ft)	**Proposed Depth:**	45 m (150 ft)

Depth in metres (feet)	Formation
0-0.61 (0-2)	Overburden.
0.61-14.6 (2-49)	Mixed grey and white, mottled and banded limestone. From 7.0-14.9 m (23-49 ft) proportion of white stone is over 70%. Core angle to banding is 45°. Rock is blocky and breaks along banding.
14.9-17.1 (49-56)	Pure white marble.
17.1-18.9 (56-62)	Dark grey, granular limestone.
18.9-25.3 (62-83)	White to pinkish white to mottled marble.
25.3-25.6 (83-84)	Medium grey, granular limestone.
25.6-26.8 (84-88)	Green volcanic.
26.8-27.1 (88-89)	Medium grey limestone.
27.1-31.4 (89-103)	Pure white to off-white marble. Pale mottled.
31.4-36.0 (103-118)	Banded light grey and white limestone.
36.0-40.5 (118-133)	Reddish-brown hornblende granite from 36.0-37.2 m (118-122 ft) strongly kaolinized and sheared fault contact.
	End of Hole @ 40.5 m (133 ft).
	Hole assayed.

Drilling Performed by: Nova Scotia Department of Mines and Energy **Geologist:** G. Dickie

NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY
DIAMOND DRILL RECORD

Property:	Glencoe Limestone	**Section:**	0-118.9 m (0-390 ft) T.D.
Hole Number:	Glencoe 88-17	**Azimuth:**	270°
Latitude:	45°55'46.42259"	**Dip:**	45°
	3° MTM 320132.970 m (1050305.020 ft)	**Started:**	September 8, 1988
Longitude:	61°18'8.27411"	**Completed:**	September 19, 1988
	3° MTM 5087548.873 m (16691433.310 ft)	**Ultimate Depth:**	118.9 m (390 ft)
Elevation:	233.09 m (764.73 ft)	**Proposed Depth:**	120 m (400 ft)

Depth in metres (feet)	Formation
0-2.1 (0-7)	Overburden.
2.1-4.6 (7-15)	Off-white spotted marble.
4.6-6.4 (15-21)	Light grey to mottled limestone.
6.4-10.7 (21-35)	Off-white to white marble.
10.7-11.3 (35-37)	Light grey limestone.
11.3-12.8 (37-42)	Off-white to white marble.
12.8-13.1 (42-43)	Medium grey limestone.
13.1-16.8 (43-55)	Off-white to bluish spotted marble. Core angle to banding 30°.
16.8-17.1 (55-56)	Medium grey limestone.
17.1-18.6 (56-61)	Off-white marble.
18.6-19.2 (61-63)	Medium grey limestone.
19.2-22.9 (63-75)	Off-white marble.
22.9-40.2 (75-132)	Mixed mottled and banded off-white to grey limestone.
40.2-40.8 (132-134)	Dark green mudstone to phyllite.
40.8-111.3 (134-365)	Mottled and banded off-white to blue-grey limestone. Core angle to banding 30°.
111.3-111.9 (365-367)	Kaolinized granite dyke.
111.9-112.2 (367-368)	White to mottled limestone.
112.2-118.9 (368-390)	Medium grained, kaolinized granodiorite.
	End of hole @ 118.9 m (390 ft).
	Hole assayed.

Drilling Performed by: Nova Scotia Department of Mines and Energy **Geologist:** G. Dickie

Drillhole: Glencoe 88-6

Sample Interval metres	(feet)	CaO %	MgO %	L.O.I. %	SiO_2 %	Al_2O_3 %	Total Fe %	Na_2O %	K_2O %	P_2O_5 %	Cl %	S %	F %	TiO_2 %	Ba %	Sr %
35.7- 39.7	(117-130)	33.81	7.58	34.80	14.92	3.63	1.96	0.024	0.615	0.059	0.007	0.490	0.052	0.18	0.025	0.022
39.7- 42.7	(130-140)	23.88	6.55	25.88	29.88	7.69	2.32	0.064	1.627	0.095	0.010	0.410	0.075	0.35	0.023	0.009
42.7- 45.8	(140-150)	31.87	18.45	45.30	1.70	0.51	1.00	0.041	0.022	0.051	0.011	0.250	0.019	0.04	0.011	0.010
45.8- 48.8	(150-160)	31.28	18.88	45.10	2.43	0.60	0.60	0.115	0.030	0.062	0.011	0.180	0.021	0.04	0.003	0.009
48.8- 51.9	(160-170)	32.83	17.66	45.63	2.12	0.43	0.64	0.212	0.055	0.040	0.012	0.250	0.016	0.04	0.010	0.009
51.9- 54.9	(170-180)	31.22	16.22	42.16	6.31	1.26	1.10	0.198	0.054	0.092	0.006	0.204	0.028	0.17	0.004	0.008
54.9- 58.0	(180-190)	33.28	17.74	45.85	1.50	0.27	0.62	0.043	0.019	0.072	0.004	0.075	0.012	0.02	0.003	0.007
58.0- 61.0	(190-200)	32.10	18.91	46.07	1.79	0.10	0.56	0.073	0.018	0.039	0.007	0.026	0.010	0.01	0.004	0.006
61.0- 64.1	(200-210)	32.24	18.81	46.11	1.34	0.12	0.63	0.161	0.018	0.060	0.007	0.101	0.011	0.02	0.007	0.008
64.1- 67.1	(210-220)	36.34	11.79	40.73	5.43	1.66	1.12	0.011	0.193	0.125	0.016	0.635	0.025	0.08	0.006	0.013
67.1- 70.2	(220-230)	49.07	1.88	40.65	4.04	1.21	0.46	0.011	0.193	0.092	0.028	0.363	0.031	0.06	0.029	0.043
70.2- 73.2	(230-240)	51.38	1.28	41.77	2.80	0.62	0.29	0.011	0.069	0.031	0.029	0.182	0.021	0.04	0.008	0.057
73.2- 76.3	(240-250)	52.50	0.68	42.34	2.46	0.47	0.23	0.014	0.058	0.045	0.046	0.136	0.017	0.04	0.015	0.053
76.3- 79.3	(250-260)	53.13	0.66	42.56	2.22	0.35	0.19	0.008	0.047	0.030	0.036	0.107	0.013	0.03	0.016	0.090
79.3- 82.4	(260-270)	53.00	0.76	42.91	1.83	0.29	0.17	0.011	0.041	0.025	0.035	0.009	0.012	0.02	0.014	0.108
82.4- 85.4	(270-280)	48.01	2.36	39.86	6.28	1.00	0.46	0.015	0.072	0.045	0.043	0.106	0.018	0.05	0.016	0.080
85.4- 88.5	(280-290)	49.41	1.30	40.14	6.03	0.90	0.33	0.012	0.082	0.040	0.031	0.216	0.024	0.05	0.035	0.084
88.5- 91.5	(290-300)	40.71	5.84	36.81	10.66	2.33	0.93	0.016	0.229	0.085	0.014	0.545	0.056	0.11	0.019	0.084
91.5- 94.6	(300-310)	40.52	9.48	42.13	4.25	0.82	0.63	0.011	0.059	0.039	0.029	0.240	0.024	0.05	0.008	0.040
94.6- 97.6	(310-320)	32.80	14.48	40.72	6.61	1.97	1.09	0.197	0.181	0.152	0.011	0.306	0.041	0.21	0.004	0.006
97.6-100.7	(320-330)	33.88	14.57	42.48	5.22	0.56	0.80	0.066	0.205	0.055	0.011	0.329	0.043	0.08	0.003	0.007
100.7-103.7	(330-340)	31.88	18.52	45.62	1.71	0.60	0.49	0.100	0.057	0.070	0.005	0.193	0.041	0.05	0.006	0.007
103.7-106.8	(340-350)	31.50	19.27	46.32	0.87	0.19	0.49	0.068	0.021	0.032	0.004	0.051	0.041	0.02	0.006	0.011
106.8-109.8	(350-360)	28.32	17.18	40.95	7.68	2.50	1.29	0.052	0.217	0.062	0.008	0.182	0.012	0.10	0.006	0.010
109.8-112.9	(360-370)	30.28	19.22	44.39	3.07	0.70	0.70	0.107	0.019	0.080	0.006	0.057	0.025	0.15	0.004	0.010
112.9-115.9	(370-380)	32.45	19.11	46.51	0.70	0.20	0.49	0.147	0.031	0.045	0.007	0.096	0.013	0.02	0.007	0.011
115.9-119.0	(380-390)	31.85	19.77	46.70	0.54	0.07	0.46	0.089	0.002	0.045	0.005	0.039	0.013	0.01	0.007	0.011
119.0-122.0	(390-400)	32.45	19.25	46.51	0.40	0.06	0.53	0.089	0.002	0.070	0.011	0.031	0.011	0.02	0.003	0.009
122.0-125.1	(400-410)	29.12	19.78	43.58	3.30	1.31	1.30	0.154	0.004	0.162	0.013	0.123	0.034	0.37	0.004	0.009
125.1-128.1	(410-420)	32.08	19.42	46.12	1.03	0.08	0.60	0.071	0.001	0.032	0.008	0.068	0.013	0.01	0.004	0.010
128.1-131.2	(420-430)	35.97	16.40	45.49	1.11	0.18	0.54	0.043	0.003	0.044	0.008	0.064	0.014	0.02	0.004	0.013
131.2-134.2	(430-440)	33.25	17.89	45.32	1.60	0.36	0.77	0.072	0.011	0.045	0.010	0.197	0.018	0.02	0.004	0.012
134.2-135.1	(440-443)	32.96	16.52	44.47	3.25	0.35	1.00	0.096	0.034	0.045	0.007	0.287	0.034	0.03	0.005	0.011

Drillhole: Glencoe 88-7

Sample Interval metres	(feet)	CaO %	MgO %	L.O.I. %	SiO_2 %	Al_2O_3 %	Total Fe %	Na_2O %	K_2O %	P_2O_5 %	Cl %	S %	F %	TiO_2 %	Ba %	Sr %
3.1- 6.1	(10- 20)	31.88	18.81	45.75	1.63	0.45	0.44	0.075	0.043	0.072	0.006	<0.001	0.021	0.030	0.004	0.012
6.1- 9.2	(20- 30)	31.36	18.80	45.78	1.39	0.44	0.84	0.153	0.064	0.062	0.006	0.044	0.019	0.030	0.002	0.012
9.2-12.2	(30- 40)	32.79	18.33	45.34	1.39	0.67	0.67	0.072	0.084	0.062	0.004	0.074	0.022	0.050	0.007	0.013
12.2-15.3	(40- 50)	33.21	16.72	43.64	4.08	0.61	1.10	0.110	0.080	0.070	0.008	0.264	0.019	0.050	0.003	0.014
15.3-18.3	(50- 60)	31.46	19.34	46.17	1.41	0.08	0.80	0.064	0.017	0.038	0.006	0.025	0.012	0.010	0.003	0.012
18.3-21.4	(60- 70)	31.53	18.86	45.33	1.66	0.06	1.04	0.034	0.012	0.038	0.004	0.194	0.011	0.020	0.005	0.011
21.4-24.4	(70- 80)	34.80	15.67	44.30	2.37	0.39	0.73	0.059	0.043	0.045	0.007	0.081	0.014	0.030	0.003	0.011
24.4-27.5	(80- 90)	32.03	18.91	45.76	0.90	0.11	0.70	0.131	0.013	0.048	0.005	0.069	0.013	0.030	0.011	0.013
27.5-30.5	(90-100)	33.25	15.18	42.65	3.24	1.82	1.37	0.086	0.157	0.070	0.011	0.162	0.031	0.110	0.005	0.017
30.5-33.6	(100-110)	30.84	14.86	40.50	9.51	2.07	1.43	0.049	0.217	0.067	0.006	0.019	0.029	0.140	0.004	0.012
33.6-36.6	(110-120)	33.60	16.49	44.58	3.21	0.81	0.87	0.610	0.112	0.020	0.006	0.001	0.024	0.050	0.079	0.011
36.6-39.7	(120-130)	33.48	18.01	46.60	0.28	0.16	0.49	0.106	0.003	0.045	0.006	0.001	0.016	0.030	0.006	0.010
39.7-42.7	(130-140)	33.56	18.34	46.25	0.14	0.12	0.46	0.109	0.002	0.025	0.006	0.001	0.011	0.020	0.007	0.010
42.7-45.8	(140-150)	33.07	18.87	46.56	0.25	0.17	0.41	0.106	0.003	0.030	0.007	0.001	0.018	0.030	0.005	0.010
45.8-48.8	(150-160)	33.50	14.81	42.77	5.00	1.46	0.99	0.018	0.071	0.050	0.012	0.001	0.029	0.110	0.007	0.009
48.8-51.9	(160-170)	38.14	5.47	34.34	14.66	3.26	1.42	0.030	0.205	0.085	0.020	0.262	0.056	0.230	0.012	0.015
51.9-54.9	(170-180)	43.81	3.12	37.77	11.30	2.24	0.86	0.009	0.193	0.067	0.021	0.215	0.043	0.160	0.020	0.021
54.9-58.0	(180-190)	39.38	3.72	34.80	15.35	3.28	1.27	0.011	0.580	0.110	0.012	0.616	0.075	0.230	0.035	0.019
58.0-61.0	(190-200)	43.71	3.70	37.35	9.15	2.14	0.94	0.005	0.390	0.105	0.011	0.473	0.034	0.150	0.034	0.021
61.0-64.1	(200-210)	44.45	3.25	37.13	10.03	1.97	0.86	0.010	0.390	0.122	0.009	0.278	0.043	0.150	0.033	0.022
64.1-67.1	(210-220)	42.73	3.11	36.92	11.30	2.10	1.19	0.012	0.350	0.120	0.011	0.588	0.049	0.170	0.057	0.026
67.1-70.2	(220-230)	42.54	3.05	36.30	13.74	2.20	0.96	0.014	0.450	0.115	0.006	0.366	0.046	0.160	0.055	0.029
70.2-73.2	(230-240)	45.42	2.56	37.97	9.25	1.73	0.76	0.011	0.340	0.098	0.009	0.284	0.043	0.110	0.054	0.031
73.2-76.3	(240-250)	46.40	2.29	38.90	7.87	1.36	0.67	0.012	0.280	0.085	0.021	0.283	0.041	0.100	0.052	0.034
76.3-79.3	(250-260)	43.70	2.74	37.28	10.12	2.03	0.97	0.015	0.450	0.125	0.020	0.489	0.049	0.120	0.083	0.030
79.3-83.3	(260-273)	44.48	2.39	37.51	10.53	2.20	0.99	0.018	0.510	0.112	0.011	0.269	0.056	0.150	0.140	0.031

Drillhole: Glencoe 88-8

Sample Interval metres	(feet)	CaO %	MgO %	L.O.I. %	SiO_2 %	Al_2O_3 %	Total Fe %	Na_2O %	K_2O %	P_2O_5 %	Cl %	S %	F %	TiO_2 %	Ba %	Sr %
1.2- 3.1	(4- 10)	53.08	1.93	44.36	0.37	0.03	0.14	0.009	0.002	0.020	0.043	0.005	0.015	0.01	0.006	0.016
3.1- 6.1	(10- 20)	52.72	2.22	44.16	0.36	0.07	0.14	0.009	0.005	0.025	0.036	0.005	0.013	0.01	0.007	0.022
6.1- 9.2	(20- 30)	48.17	6.16	44.83	0.42	0.09	0.26	0.006	0.002	0.022	0.036	<0.001	0.011	0.02	0.005	0.018
9.2-12.2	(30- 40)	52.65	2.05	43.87	0.72	0.22	0.14	0.005	0.016	0.015	0.021	0.009	0.016	0.02	0.003	0.022
12.2-15.3	(40- 50)	50.00	3.45	43.14	1.60	0.29	0.29	0.011	0.037	0.010	0.035	0.029	0.032	0.03	0.009	0.028
15.3-18.3	(50- 60)	46.49	6.65	44.35	0.85	0.27	0.27	0.007	0.009	0.015	0.029	0.048	0.024	0.03	0.006	0.015
18.3-21.4	(60- 70)	52.53	1.78	43.38	0.96	0.30	0.17	0.008	0.017	0.022	0.044	0.023	0.015	0.03	0.010	0.019
21.4-24.4	(70- 80)	53.69	1.37	43.58	0.74	0.30	0.20	0.007	0.007	0.018	0.033	0.047	0.021	0.03	0.006	0.018
24.4-27.5	(80- 90)	53.66	0.89	43.17	1.19	0.39	0.20	0.001	0.013	0.020	0.011	0.004	0.016	0.04	0.013	0.022
27.5-30.5	(90-100)	53.59	0.83	43.19	1.33	0.38	0.19	0.002	0.028	0.020	0.013	0.018	0.017	0.03	0.008	0.022
30.5-33.6	(100-110)	52.41	1.62	42.51	2.20	0.56	0.27	0.004	0.048	0.026	0.026	<0.001	0.031	0.05	0.009	0.020
33.6-36.6	(110-120)	52.11	1.91	42.22	2.65	0.65	0.30	0.004	0.055	0.022	0.020	0.020	0.039	0.04	0.005	0.028
36.6-39.7	(120-130)	51.21	1.82	41.64	3.60	0.96	0.36	0.005	0.040	0.026	0.018	<0.001	0.039	0.06	0.009	0.032
39.7-42.7	(130-140)	51.98	1.69	42.77	2.07	0.68	0.27	0.003	0.005	0.020	0.010	<0.001	0.021	0.04	0.009	0.032
42.7-45.8	(140-150)	53.02	1.17	42.96	1.83	0.37	0.26	0.004	0.010	0.018	0.020	<0.001	0.018	0.03	0.012	0.020
45.8-48.8	(150-160)	52.75	1.41	43.23	1.63	0.32	0.27	0.004	0.011	0.020	0.019	<0.001	0.011	0.03	0.011	0.023
48.8-51.9	(160-170)	51.42	1.22	41.37	3.88	1.30	0.37	0.003	0.100	0.026	0.009	0.003	0.022	0.05	0.011	0.024
51.9-54.9	(170-180)	44.75	3.07	38.40	7.88	3.24	1.10	0.018	0.170	0.045	0.007	0.006	0.043	0.15	0.008	0.018
54.9-58.0	(180-190)	54.29	0.64	43.72	0.92	0.13	0.09	0.007	0.004	0.018	0.041	<0.001	0.013	0.07	0.011	0.016
58.0-61.0	(190-200)	54.09	0.88	43.76	0.53	0.10	0.11	0.008	0.001	0.020	0.045	0.002	0.010	0.01	0.007	0.014
61.0-64.1	(200-210)	54.39	0.85	43.91	0.40	0.13	0.13	0.008	0.002	0.026	0.038	0.034	0.008	0.01	0.010	0.018
64.1-67.1	(210-220)	55.31	0.38	42.78	0.73	0.18	0.11	0.003	0.007	0.018	0.015	<0.001	0.010	0.01	0.012	0.023
67.1-70.2	(220-230)	55.47	0.43	43.44	0.63	0.15	0.09	0.003	0.008	0.011	0.019	<0.001	0.015	0.01	0.006	0.020
70.2-73.2	(230-240)	54.69	0.47	43.42	0.84	0.24	0.13	0.002	0.006	0.011	0.017	<0.001	0.009	0.02	0.008	0.020
73.2-76.3	(240-250)	54.67	0.42	43.12	0.77	0.17	0.11	0.002	0.005	0.011	0.008	<0.001	0.008	0.01	0.005	0.023
76.3-79.3	(250-260)	55.63	0.43	43.51	0.40	0.10	0.11	0.001	0.005	0.040	0.010	<0.001	0.015	0.01	0.008	0.021
79.3-82.4	(260-270)	53.72	2.00	44.07	0.34	0.14	0.16	0.004	0.004	0.022	0.025	0.006	0.013	0.02	0.011	0.021
82.4-83.9	(270-275)	51.38	2.90	43.48	1.31	0.05	0.15	0.008	0.004	0.020	0.044	<0.001	0.032	0.02	0.004	0.022

Drillhole: Glencoe 88-9

Sample Interval metres	(feet)	CaO %	MgO %	L.O.I. %	SiO_2 %	Al_2O_3 %	Total Fe %	Na_2O %	K_2O %	P_2O_5 %	Cl %	S %	F %	TiO_2 %	Ba %	Sr %
0.0- 3.1	(0- 10)	53.58	0.70	42.57	2.08	0.34	0.14	0.031	0.034	0.018	0.019	<0.001	0.017	0.02	0.012	0.019
3.1- 6.1	(10- 20)	49.56	4.44	43.59	1.19	0.31	0.26	0.005	0.022	0.018	0.020	0.005	0.028	0.03	0.006	0.016
6.1- 9.2	(20- 30)	49.30	4.47	42.88	1.27	0.28	0.26	0.008	0.045	0.010	0.029	0.033	0.028	0.02	0.005	0.021
9.2-12.2	(30- 40)	53.10	1.93	43.34	0.61	0.18	0.14	0.006	0.018	0.011	0.023	0.004	0.017	0.03	0.003	0.020
12.2-15.3	(40- 50)	52.45	3.12	44.26	0.29	0.06	0.16	0.006	0.004	0.011	0.021	0.002	0.013	0.01	0.005	0.022
15.3-18.3	(50- 60)	45.10	8.84	45.01	0.41	0.10	0.3?	0.002	0.002	0.010	0.012	<0.001	0.012	0.02	0.005	0.024
18.3-21.4	(60- 70)	54.02	1.51	44.15	0.17	0.04	0.0?	0.006	0.005	0.010	0.034	0.0?3	0.016	0.01	0.004	0.023
21.4-24.4	(70- 80)	24.19	12.52	31.66	19.95	6.41	3.36	0.051	0.590	0.040	0.018	0.002	0.024	0.24	0.002	0.008
24.4-27.5	(80- 90)	33.85	16.52	44.58	2.62	0.87	0.79	0.058	0.036	0.020	0.014	0.005	0.021	0.04	0.005	0.009
27.5-30.5	(90-100)	55.02	0.55	43.84	0.28	0.02	0.05	0.009	0.003	0.022	0.040	0.002	0.015	0.01	0.006	0.020
30.5-33.6	(100-110)	39.80	12.31	44.46	2.90	0.16	0.31	0.004	0.003	0.022	0.012	<0.001	0.021	0.03	0.008	0.012
33.6-36.6	(110-120)	40.86	12.12	45.13	0.96	0.29	0.30	0.043	0.008	0.020	0.020	<0.001	0.017	0.03	0.009	0.009
36.6-40.6	(120-133)	49.80	4.00	43.43	1.77	0.27	0.16	0.005	0.011	0.018	0.014	<0.001	0.025	0.03	0.009	0.016

Drillhole: Glencoe 88-10

Sample interval metres	(feet)	CaO %	MgO %	L.O.I. %	SiO_2 %	Al_2O_3 %	Total Fe %	Na_2O %	K_2O %	P_2O_5 %	Cl %	S %	F %	TiO_2 %	Ba %	Sr %
0.6- 3.7	(2- 12)	54.20	0.71	42.22	0.69	0.390	0.17	0.003	0.031	0.022	0.011	<0.001	0.015	0.04	0.011	0.020
3.7- 6.1	(12- 20)	53.06	0.71	42.50	1.97	0.380	0.16	0.003	0.054	0.028	0.012	<0.001	0.019	0.04	0.012	0.020
6.1- 9.2	(20- 30)	53.24	0.76	42.39	1.68	0.380	0.20	0.002	0.047	0.021	0.005	<0.001	0.017	0.03	0.008	0.022
9.2- 12.2	(30- 40)	53.11	1.07	42.67	1.22	0.340	0.13	0.003	0.034	0.018	0.018	0.001	0.025	0.03	0.009	0.025
12.2- 15.3	(40- 50)	53.03	1.67	43.52	1.03	0.240	0.15	0.014	0.024	0.018	0.047	0.006	0.025	0.04	0.006	0.019
15.3- 18.3	(50- 60)	51.54	2.81	43.32	1.48	0.340	0.22	0.009	0.029	0.021	0.033	0.031	0.028	0.04	0.006	0.020
18.3- 21.4	(60- 70)	53.60	1.45	43.10	0.58	0.280	0.16	0.005	0.014	0.018	0.020	0.008	0.018	0.03	0.008	0.022
21.4- 24.4	(70- 80)	44.14	8.78	44.35	0.87	0.290	0.46	0.008	0.013	0.028	0.027	0.034	0.020	0.03	0.005	0.017
24.4- 27.5	(80- 90)	50.55	4.22	44.45	0.33	0.050	0.15	0.006	0.003	0.012	0.029	0.009	0.015	0.01	0.004	0.028
27.5- 30.5	(90-100)	39.00	11.96	43.65	3.82	0.270	0.42	0.014	0.061	0.038	0.029	<0.001	0.041	0.03	0.003	0.013
30.5- 33.6	(100-110)	44.56	8.80	44.18	1.69	0.240	0.30	0.007	0.031	0.040	0.022	0.019	0.031	0.02	0.007	0.015
33.6- 36.6	(110-120)	49.13	4.86	42.84	2.17	0.320	0.26	0.011	0.071	0.025	0.027	0.046	0.039	0.03	0.006	0.017
36.6- 39.7	(120-130)	41.74	10.38	44.10	1.81	0.490	0.30	0.012	0.039	0.021	0.016	0.001	0.026	0.04	0.007	0.015
39.7- 42.7	(130-140)	42.76	10.46	44.64	1.02	0.240	0.22	0.008	0.031	0.021	0.020	<0.001	0.020	0.02	0.003	0.011
42.7- 45.8	(140-150)	42.42	10.75	44.70	0.88	0.370	0.24	0.007	0.016	0.010	0.021	0.004	0.029	0.02	0.004	0.009
45.8- 48.8	(150-160)	46.03	7.61	44.22	1.00	0.290	0.17	0.005	0.014	0.012	0.014	<0.001	0.011	0.02	0.013	0.012
48.8- 51.9	(160-170)	47.15	6.85	44.01	1.29	0.290	0.22	0.006	0.013	0.012	0.018	<0.001	0.014	0.02	0.005	0.013
51.9- 54.9	(170-180)	52.44	2.53	43.40	1.00	0.370	0.13	0.006	0.023	0.012	0.025	0.018	0.015	0.03	0.013	0.015
54.9- 58.0	(180-190)	42.77	11.08	44.88	0.63	0.230	0.20	0.007	0.024	0.018	0.020	<0.001	0.024	0.02	0.010	0.011
58.0- 61.0	(190-200)	37.32	15.20	45.92	0.64	0.290	0.30	0.006	0.009	0.010	0.022	0.008	0.020	0.03	0.003	0.009
61.0- 64.1	(200-210)	50.08	4.68	43.99	0.74	0.320	0.16	0.005	0.016	0.018	0.024	0.006	0.017	0.03	0.011	0.015
64.1- 67.1	(210-220)	50.37	4.21	44.28	0.75	0.280	0.17	0.014	0.012	0.018	0.025	0.019	0.015	0.03	0.009	0.014
67.1- 70.2	(220-230)	51.86	2.87	44.38	0.40	0.170	0.11	0.006	0.006	0.018	0.032	0.006	0.018	0.02	0.011	0.012
70.2- 73.2	(230-240)	54.47	1.00	44.03	0.50	0.180	0.08	0.008	0.007	0.010	0.036	0.007	0.015	0.02	0.011	0.012
73.2- 76.3	(240-250)	54.61	0.93	43.86	0.39	0.130	0.10	0.006	0.006	0.010	0.028	0.011	0.020	0.03	0.008	0.011
76.3- 79.3	(250-260)	49.14	4.74	43.27	1.73	0.480	0.20	0.015	0.039	0.018	0.042	0.021	0.026	0.04	0.008	0.014
79.3- 82.4	(260-270)	52.74	2.02	42.82	1.73	0.550	0.17	0.004	0.013	0.018	0.005	0.012	0.031	0.04	0.005	0.011
82.4- 85.4	(270-280)	53.50	1.28	42.66	1.65	0.620	0.19	0.002	0.002	0.031	0.007	0.009	0.028	0.04	0.005	0.009
85.4- 88.5	(280-290)	47.95	5.31	43.41	2.00	0.630	0.36	0.009	0.012	0.028	0.026	0.007	0.026	0.04	0.006	0.015
88.5- 91.5	(290-300)	48.39	4.55	42.68	2.30	0.700	0.27	0.008	0.029	0.031	0.024	0.012	0.034	0.04	0.011	0.019
91.5- 94.6	(300-310)	50.03	3.18	41.73	3.18	1.020	0.21	0.011	0.078	0.042	0.023	<0.001	0.026	0.07	0.008	0.017
94.6- 97.6	(310-320)	45.67	7.09	43.02	2.41	0.640	0.24	0.011	0.022	0.031	0.022	<0.001	0.025	0.05	0.004	0.015
97.6-100.7	(320-330)	48.26	5.14	42.49	2.53	0.820	0.20	0.007	0.090	0.062	0.018	<0.001	0.036	0.06	0.008	0.017
100.7-103.7	(330-340)	46.55	6.71	43.85	0.61	0.440	0.20	0.008	0.015	0.031	0.022	0.013	0.026	0.04	0.016	0.015
103.7-106.8	(340-350)	46.32	6.97	43.50	1.49	0.380	0.36	0.008	0.017	0.031	0.032	0.191	0.029	0.04	0.006	0.015
106.8-109.8	(350-360)	47.99	5.45	42.17	2.52	0.750	0.27	0.009	0.077	0.082	0.031	0.082	0.026	0.05	0.007	0.018
109.8-112.9	(360-370)	46.57	6.70	43.01	1.97	0.570	0.23	0.008	0.029	0.038	0.023	0.007	0.041	0.04	0.009	0.017
112.9-115.9	(370-380)	46.28	7.10	42.92	2.06	0.590	0.24	0.008	0.016	0.025	0.016	0.006	0.029	0.03	0.014	0.015
115.9-119.0	(380-390)	46.34	7.25	44.16	1.18	0.390	0.23	0.007	0.005	0.025	0.023	0.002	0.034	0.02	0.014	0.015
119.0-122.0	(390-400)	48.22	6.14	44.00	0.85	0.270	0.17	0.005	0.004	0.030	0.014	<0.001	0.019	0.01	0.007	0.016

Drillhole: Glencoe 88-10 continued

Sample Interval metres	(feet)	CaO %	MgO %	L.O.I. %	SiO_2 %	Al_2O_3 %	Total Fe %	Na_2O %	K_2O %	P_2O_5 %	Cl %	S %	F %	TiO_2 %	Ba %	Sr %
122.0-125.1	(400-410)	48.03	5.81	43.00	1.57	0.480	0.20	0.006	0.047	0.012	0.013	0.006	0.031	0.03	0.014	0.019
125.1-128.1	(410-420)	47.83	6.18	44.11	0.61	0.310	0.20	0.006	0.005	0.030	0.024	0.004	0.022	0.01	0.007	0.018
128.1-131.2	(420-430)	49.08	4.60	43.33	1.29	0.350	0.17	0.008	0.016	0.030	0.027	<0.001	0.026	0.02	0.009	0.017
131.2-134.2	(430-440)	47.96	6.10	43.23	1.65	0.500	0.21	0.008	0.011	0.030	0.021	0.003	0.020	0.03	0.005	0.016
134.2-137.3	(440-450)	44.62	6.42	42.01	4.24	1.190	0.30	0.009	0.133	0.092	0.014	0.007	0.069	0.08	0.010	0.017
137.3-140.3	(450-460)	49.20	4.07	42.53	2.28	0.610	0.19	0.008	0.066	0.032	0.014	0.001	0.034	0.04	0.011	0.020
140.3-143.4	(460-470)	51.08	2.54	42.27	2.58	0.650	0.19	0.015	0.067	0.030	0.042	<0.001	0.041	0.03	0.011	0.022
143.4-146.4	(470-480)	49.31	3.56	41.39	3.26	0.900	0.21	0.012	0.087	0.038	0.014	<0.001	0.046	0.03	0.029	0.025
146.4-149.5	(480-490)	50.25	3.07	42.80	2.72	0.650	0.19	0.027	0.061	0.038	0.024	<0.001	0.031	0.05	0.005	0.020
149.5-153.7	(490-504)	48.79	4.93	42.35	2.30	0.560	0.20	0.005	0.030	0.045	0.017	0.001	0.039	0.05	0.007	0.020

Drillhole: Glencoe 88-13

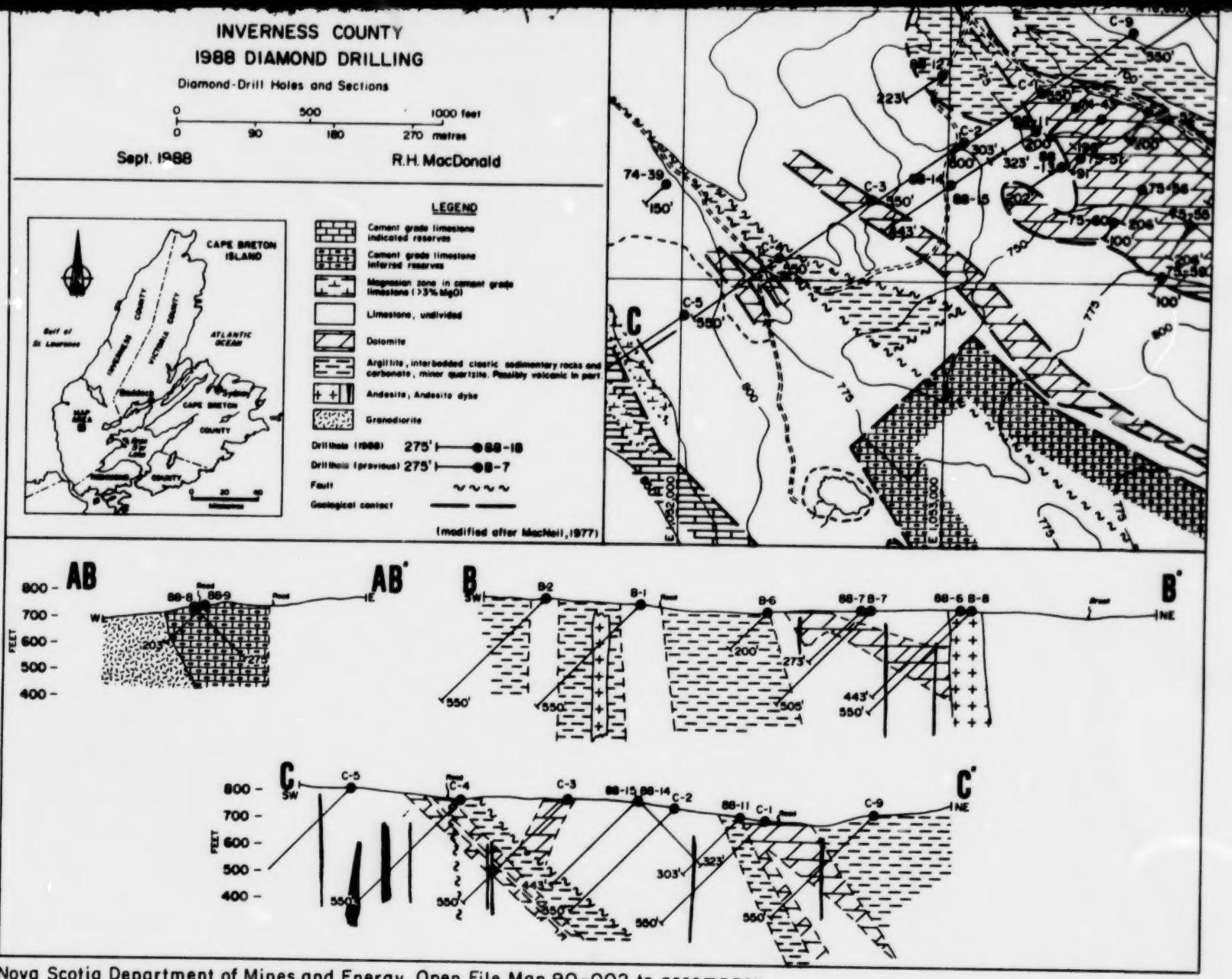
Sample Interval metres	(feet)	CaO %	MgO %	L.O.I. %	SiO_2 %	Al_2O_3 %	Total Fe %	Na_2O %	K_2O %	P_2O_5 %	Cl %	S %	F %	TiO_2 %	Ba %	Sr %
1.5- 6.1	(5- 20)	44.57	2.92	38.15	9.60	1.89	0.64	0.020	0.250	0.088	0.007	0.016	0.031	0.14	0.009	0.030
6.1- 9.2	(20- 30)	46.18	3.71	40.28	6.57	1.32	0.67	0.010	0.117	0.062	0.014	0.051	0.036	0.10	0.012	0.029
9.2-12.2	(30- 40)	44.77	3.48	38.92	9.50	1.89	0.96	0.018	0.240	0.062	0.007	0.104	0.049	0.17	0.018	0.036
12.2-15.3	(40- 50)	45.20	3.92	39.74	7.82	1.55	0.87	0.010	0.250	0.062	0.007	0.221	0.064	0.13	0.009	0.033
15.3-18.3	(50- 60)	46.03	3.67	40.11	7.17	1.52	0.72	0.009	0.180	0.062	0.007	0.066	0.036	0.13	0.010	0.035
18.3-21.4	(60- 70)	45.39	3.56	39.50	8.44	1.62	0.84	0.089	0.230	0.090	0.004	0.089	0.044	0.16	0.022	0.043
21.4-24.4	(70- 80)	34.39	5.73	33.23	18.27	3.92	3.03	0.280	0.680	0.188	0.003	0.108	0.060	0.37	0.026	0.035
24.4-27.5	(80- 90)	34.13	4.58	31.77	20.97	4.92	0.96	0.050	1.000	0.095	0.007	0.124	0.060	0.20	0.100	0.021
27.5-30.5	(90-100)	50.55	2.42	41.98	3.09	0.89	0.30	0.011	0.116	0.085	0.014	0.011	0.031	0.08	0.008	0.011
30.5-33.6	(100-110)	44.53	9.25	45.05	0.46	0.16	0.30	0.006	0.022	0.030	0.007	<0.001	0.041	0.02	0.006	0.012
33.6-36.6	(110-120)	36.95	15.81	46.16	0.35	0.16	0.29	0.007	0.015	0.060	0.003	<0.001	0.022	0.01	0.007	0.008
36.6-39.7	(120-130)	31.42	20.18	47.12	0.19	0.08	0.26	0.027	0.011	0.032	0.004	<0.001	0.018	0.01	0.005	0.008
39.7-42.7	(130-140)	31.75	20.39	47.25	0.14	0.06	0.24	0.024	0.008	0.030	0.004	0.019	0.018	0.01	0.004	0.008
42.7-45.8	(140-150)	31.25	20.62	47.31	0.11	0.07	0.26	0.030	0.008	0.025	0.004	<0.001	0.015	0.01	0.005	0.008
45.8-48.8	(150-160)	31.11	20.36	46.83	0.32	0.20	0.39	0.026	0.013	0.025	0.001	<0.001	0.014	0.02	0.002	0.010
48.8-51.9	(160-170)	31.96	19.81	46.66	0.20	0.22	0.31	0.014	0.019	0.025	0.002	<0.001	0.009	0.02	0.003	0.010
51.9-54.9	(170-180)	30.23	20.59	46.05	0.74	0.13	0.33	0.032	0.009	0.025	0.001	<0.001	0.014	0.02	0.004	0.009
54.9-58.0	(180-190)	31.01	20.60	47.32	0.18	0.13	0.31	0.042	0.007	0.025	0.003	<0.001	0.012	0.02	0.002	0.010
58.0-61.6	(190-202)	31.75	20.77	47.10	0.14	0.07	0.26	0.023	0.005	0.025	0.004	<0.001	0.011	0.01	0.001	0.009

Drillhole: Glencoe 88-16

Sample Interval metres	(feet)	CaO %	MgO %	L.O.I. %	SiO_2 %	Al_2O_3 %	Total Fe %	Na_2O %	K_2O %	P_2O_5 %	Cl %	S %	F %	TiO_2 %	Ba %	Sr %
0.0- 3.1	(0- 10)	53.10	1.61	43.41	0.96	0.21	0.15	0.005	0.019	0.040	0.014	<0.001	0.020	0.03	0.004	0.021
3.1- 6.1	(10- 20)	48.70	5.66	43.83	0.85	0.25	0.29	0.005	0.022	0.040	0.020	<0.001	0.025	0.02	0.004	0.015
6.1- 9.2	(20- 30)	49.42	5.02	43.95	0.86	0.25	0.20	0.008	0.018	0.010	0.029	0.002	0.021	0.01	0.007	0.022
9.2-12.2	(30- 40)	52.45	2.23	43.64	0.34	0.07	0.13	0.006	0.004	0.010	0.030	<0.001	0.009	0.01	0.004	0.020
12.2-15.3	(40- 50)	43.05	9.89	44.94	1.04	0.16	0.33	0.004	0.003	0.010	0.016	<0.001	0.012	0.02	0.005	0.014
15.3-18.3	(50- 60)	46.59	6.39	44.10	2.09	0.17	0.62	0.007	0.002	0.020	0.032	0.276	0.010	0.01	0.006	0.011
18.3-21.4	(60- 70)	45.29	8.59	44.90	0.48	0.03	0.23	0.010	0.008	0.015	0.044	0.013	0.017	0.01	0.006	0.011
21.4-24.4	(70- 80)	45.56	7.73	44.18	0.50	0.15	0.23	0.005	0.002	0.015	0.024	0.008	0.012	0.02	0.005	0.011
24.4-27.5	(80- 90)	29.00	12.23	36.09	12.24	5.72	2.53	0.012	0.460	0.045	0.015	<0.001	0.028	0.21	0.007	0.008
27.5-30.5	(90-100)	53.25	1.85	43.55	0.42	0.02	0.09	0.005	0.002	0.010	0.029	0.002	0.010	0.01	0.003	0.019
30.5-33.6	(100-110)	44.22	9.32	44.47	0.50	0.23	0.21	0.006	0.007	0.015	0.018	0.004	0.015	0.02	0.005	0.014
33.6-35.7	(110-117)	46.34	7.33	43.77	1.33	0.43	0.26	0.007	0.009	0.031	0.017	0.015	0.022	0.02	0.011	0.011

Drillhole: Glencoe 88-17

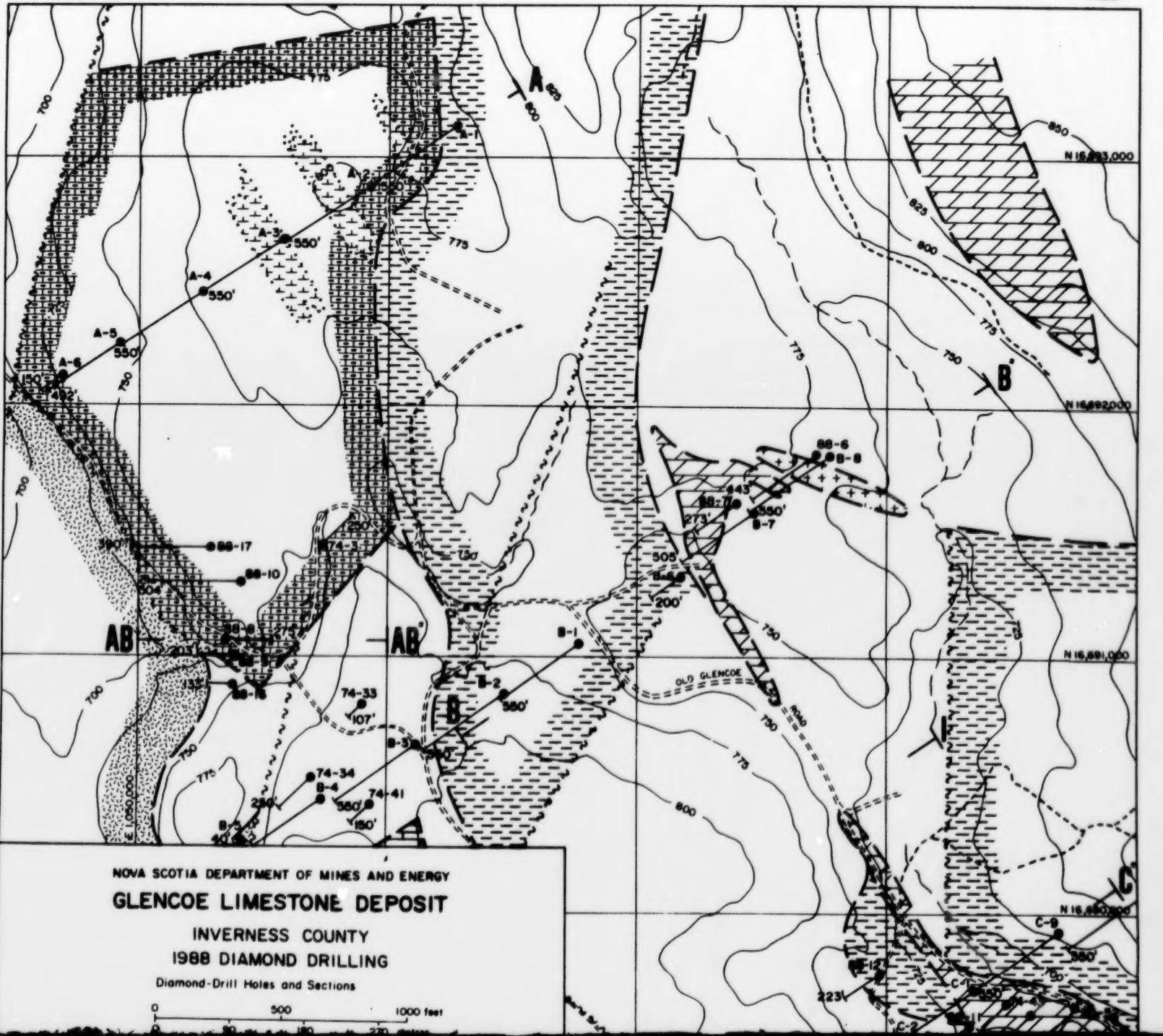
Sample Interval metres	(feet)	CaO %	MgO %	L.O.I. %	SiO_2 %	Al_2O_3 %	Total Fe %	Na_2O %	K_2O %	P_2O_5 %	Cl %	S %	F %	TiO_2 %	Ba %	Sr %
2.1- 5.2	(7- 17)	42.28	10.62	44.76	0.48	0.33	0.29	0.005	0.006	0.015	0.020	0.001	0.016	0.03	0.003	0.009
5.2- 8.2	(17- 27)	49.55	5.19	43.51	0.71	0.42	0.20	0.008	0.029	0.015	0.028	0.037	0.016	0.03	0.006	0.014
8.2- 11.3	(27- 37)	42.03	11.11	44.72	0.51	0.27	0.20	0.015	0.011	0.020	0.027	0.017	0.015	0.02	0.005	0.011
11.3- 14.3	(37- 47)	44.19	9.15	44.65	1.11	0.36	0.17	0.005	0.028	0.015	0.018	0.002	0.019	0.03	0.006	0.010
14.3- 17.4	(47- 57)	47.00	6.83	44.32	0.75	0.20	0.14	0.003	0.016	0.015	0.016	0.020	0.018	0.02	0.003	0.012
17.4- 20.4	(57- 67)	47.50	6.46	44.08	0.88	0.32	0.17	0.004	0.030	0.020	0.012	0.023	0.022	0.03	0.003	0.011
20.4- 23.5	(67- 77)	50.73	4.10	44.27	0.65	0.18	0.11	0.005	0.019	0.010	0.019	0.002	0.020	0.02	0.007	0.013
23.5- 26.5	(77- 87)	47.30	6.65	43.85	1.06	0.25	0.16	0.005	0.034	0.010	0.016	<0.001	0.024	0.03	0.011	0.015
26.5- 29.6	(87- 97)	48.47	5.47	43.95	0.95	0.30	0.16	0.007	0.024	0.010	0.023	<0.001	0.024	0.03	0.006	0.015
29.6- 32.6	(97-107)	47.62	5.95	44.00	0.99	0.31	0.15	0.008	0.036	0.015	0.031	0.007	0.024	0.03	0.005	0.015
32.6- 35.7	(107-117)	48.00	5.79	44.06	0.55	0.17	0.26	0.005	0.008	0.010	0.021	0.122	0.016	0.02	0.006	0.012
35.7- 38.7	(117-127)	50.00	4.30	44.15	0.72	0.13	0.14	0.006	0.008	0.010	0.027	0.005	0.009	0.02	0.008	0.015
38.7- 41.8	(127-137)	42.00	6.08	39.58	6.80	3.26	1.20	0.018	0.270	0.088	0.016	0.102	0.039	0.16	0.007	0.020
41.8- 44.8	(137-147)	48.62	4.23	42.76	2.50	0.72	0.24	0.009	0.060	0.045	0.018	0.001	0.031	0.06	0.006	0.023
44.8- 47.9	(147-157)	50.28	3.25	43.32	1.50	0.42	0.16	0.010	0.012	0.031	0.056	0.003	0.025	0.02	0.006	0.014
47.9- 50.9	(157-167)	48.85	4.92	42.99	1.76	0.53	0.26	0.009	0.020	0.045	0.036	0.021	0.028	0.02	0.008	0.016
50.9- 54.0	(167-177)	47.43	6.27	43.65	1.63	0.47	0.20	0.010	0.004	0.028	0.033	<0.001	0.026	0.03	0.006	0.015
54.0- 57.0	(177-187)	47.67	5.43	43.32	2.00	0.62	0.21	0.009	0.093	0.080	0.018	0.006	0.043	0.04	0.005	0.017
57.0- 60.1	(187-197)	46.50	6.30	43.35	2.37	0.77	0.21	0.007	0.027	0.045	0.020	<0.001	0.028	0.05	0.003	0.021
60.1- 63.1	(197-207)	48.73	4.95	43.61	2.19	0.64	0.21	0.009	0.105	0.052	0.021	<0.001	0.041	0.04	0.002	0.018
63.1- 66.2	(207-217)	46.30	6.47	42.58	2.09	0.61	0.29	0.008	0.080	0.060	0.011	<0.001	0.043	0.04	0.007	0.022
66.2- 69.2	(217-227)	48.66	5.55	43.50	1.50	0.48	0.19	0.010	0.030	0.045	0.032	0.001	0.028	0.03	0.012	0.020
69.2- 72.3	(227-237)	46.97	6.93	43.83	1.35	0.41	0.20	0.005	0.013	0.031	0.018	<0.001	0.034	0.03	0.005	0.022
72.3- 75.3	(237-247)	47.15	7.09	44.06	1.15	0.34	0.21	0.006	0.006	0.036	0.021	<0.001	0.036	0.02	0.004	0.020
75.3- 78.4	(247-257)	47.63	6.38	44.07	1.00	0.31	0.23	0.006	0.009	0.031	0.027	<0.001	0.026	0.02	0.010	0.023
78.4- 81.4	(257-267)	47.63	6.12	43.52	1.37	0.37	0.20	0.006	0.028	0.030	0.027	0.001	0.036	0.02	0.002	0.020
81.4- 84.5	(267-277)	47.68	5.72	42.52	1.99	0.56	0.27	0.007	0.071	0.051	0.021	0.005	0.039	0.04	0.014	0.020
84.5- 87.5	(277-287)	46.52	7.71	43.92	0.56	0.39	0.23	0.007	0.007	0.031	0.030	<0.001	0.025	0.03	0.006	0.016
87.5- 90.6	(287-297)	47.70	5.96	43.57	1.31	0.40	0.17	0.006	0.023	0.051	0.020	0.004	0.036	0.03	0.004	0.017
90.6- 94.6	(297-310)	46.33	6.90	43.81	1.17	0.31	0.19	0.004	0.008	0.038	0.014	<0.001	0.041	0.03	0.008	0.018
94.6- 97.6	(310-320)	46.50	6.89	43.46	1.34	0.41	0.20	0.005	0.039	0.042	0.016	<0.001	0.049	0.03	0.007	0.019
97.6-100.7	(320-330)	46.33	6.68	43.69	1.20	0.35	0.20	0.007	0.006	0.030	0.016	<0.001	0.026	0.03	0.003	0.021
100.7-103.7	(330-340)	47.88	6.05	43.74	1.25	0.34	0.17	0.005	0.018	0.026	0.014	<0.001	0.034	0.03	0.006	0.021
103.7-106.8	(340-350)	51.29	3.33	43.11	1.32	0.36	0.15	0.010	0.017	0.030	0.043	<0.001	0.041	0.03	0.007	0.014
106.8-109.8	(350-360)	52.68	1.97	43.49	1.02	0.15	0.14	0.004	0.006	0.015	0.012	0.007	0.021	0.02	0.005	0.015
109.8-111.3	(360-365)	49.98	4.38	44.07	0.72	0.14	0.19	0.004	0.002	0.011	0.012	<0.001	0.017	0.02	0.007	0.012



Nova Scotia Department of Mines and Energy, Open File Map 90-002 to accompany
Nova Scotia Department of Mines and Energy, Open File Report 90-020
(Same Scale as MacNeil, 1977, Nova Scotia Department of Mines and Energy, Open File Report 329)

Nova Scotia Department of Mines and Energy

Canada – Nova Scotia Mineral Development Agreement



NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY

GLENCOE LIMESTONE DEPOSIT

INVERNESS COUNTY

1988 DIAMOND DRILLING

Diamond-Drill Holes and Sections

0 500 1000 feet